



Appendix A

Claim Chart Comparing Interfering Claims

Applicants' Claim 32	'196 Patent Claim 14
<p>32. A system for automated extraction of data from a molecular array having features arranged in a regular pattern, the system comprising:</p> <p style="padding-left: 40px;">a scanning component that produces an image of the molecular array representing intensities of data signals emitted from discrete positions on a surface of the molecular array;</p> <p style="padding-left: 40px;">a computer program that processes the image of the molecular array produced by the scanning component to identify the location of features in the image of the molecular array corresponding to molecules bound to features of the molecular array and that extracts data from the located features within an image of the molecular array;</p> <p style="padding-left: 40px;">and a computer for executing the computer program.</p>	<p>14. A system for automated extraction of data from a molecular array having features arranged in a regular pattern, the system comprising:</p> <p style="padding-left: 40px;">a scanning component that produces images of the molecular array representing intensities of data signals emitted from discrete positions on a surface of the molecular array;</p> <p style="padding-left: 40px;">a computer program that processes the images of the molecular array produced by the scanning component to index features in the images of the molecular array corresponding to molecules bound to features of the molecular array and that extracts data from the indexed features within images of the molecular array;</p> <p style="padding-left: 40px;">and a computer for executing the computer program.</p>

Applicants' Claim 33	'820 Patent Claim 1
<p>33. A method for evaluating an orientation of a molecular array having features arranged in a pattern, the method comprising:</p> <p style="padding-left: 40px;">(a) receiving an image of the molecular</p>	<p>1. A method for evaluating an orientation of a molecular array having features arranged in a pattern, the method comprising:</p> <p style="padding-left: 40px;">(a) receiving an image of the molecular</p>

Applicants' Claim 33	'820 Patent Claim 1
<p>array produced by scanning the molecular array to determine data signals emanating from discrete positions on a surface of the molecular array;</p> <p>(b) calculating an actual result of a function on pixels of the image lying in a pattern; and</p> <p>(c) altering the orientation of the pattern on the array and repeating steps (a) and (b) as needed until the results of the comparison are within the predetermined difference.</p>	<p>array produced by scanning the molecular array to determine data signals emanating from discrete positions on a surface of the molecular array;</p> <p>(b) calculating an actual result of a function on pixels of the image lying in a second pattern;</p> <p>(c) comparing the result of step (b) with an expected result which would be obtained if the second pattern had a predetermined orientation on the array; and</p> <p>(d) when the results of the comparison in step (c) are outside a predetermined difference, then altering the orientation of the second pattern on the array and repeating steps (b) and (c), and repeating the foregoing as needed until the results of the comparison are within the predetermined difference.</p>